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### PROFESSIONAL PREPARATION:

Princeton University	Physics (cum laude)	B.A., 1981
University of Chicago	Astronomy and Astrophysics	M.S., 1984
University of Chicago	Astronomy and Astrophysics	Ph.D., 1988
University of Chicago	Atmospheric Science	1989–1989
UCSD	Atmospheric Science	1990–1992

### APPOINTMENTS

2007 – present,	Professor in Residence,	University of California, Berkeley
2007 – present,	Senior Scientist,	Lawrence Berkeley National Laboratory
2007 – 2008,	Senior Scientist,	National Center for Atmospheric Research
2001 – 2007,	Adjoint Professor,	University of Colorado, Boulder
2001 – 2007,	Scientist III,	National Center for Atmospheric Research
1997 – 2001,	Scientist II,	National Center for Atmospheric Research
1996 – 1997,	Visiting Scientist,	National Center for Atmospheric Research
1992 – 1996,	Asst. Research Physicist,	Scripps Institution of Oceanography

### PUBLICATIONS:

#### RECENT PUBLICATIONS RELATED TO PROPOSED PROJECT

1. Collins, W.D., *et al*, 2006: The Community Climate System Model: CCSM3. *J. Climate*, **19**, 2122–2143.
2. Collins, W.D., *et al*, 2006: The formulation and atmospheric simulation of the Community Atmosphere Model: CAM3. *J. Climate*. **19**, 2144–2161.
3. Meehl, G.A., T.F. Stocker, W.D. Collins, *et al*, 2007: Chapter 10: Global Climate Projections, in the *Intergovernmental Panel on Climate Change Working Group 1: The Physical Basis of Climate Change*.
4. Collins, W. D., and M. Satoh, 2009: Simulating global clouds: Past, present and future. Perturbed Clouds in the Climate System: Report of the Ernst Strungmann Forum, R.J. Charlson and J. Heintzenberg, eds., Frankfurt, Germany, March 27, 2008, MIT Press.
5. Quaas, J., S. Bony, W.D. Collins, L. Donner, A. Illingworth, A. Jones, U. Lohmann, M. Satoh, S.E. Schwartz, W.-K. Tao, and R. Wood, 2009: Current understanding and quantification of clouds in the changing climate system and strategies for reducing critical uncertainties. Perturbed Clouds in the Climate System: Report of the Ernst Strungmann Forum, R.J. Charlson and J. Heintzenberg, eds., Frankfurt, Germany, March 27, 2008, MIT Press.

## OTHER RECENT PUBLICATIONS

1. Jensen, M.P., A.M. Vogelmann, W.D. Collins, G.J. Zhang, and E. Luke, 2008: Investigation of regional and seasonal variations in marine boundary layer cloud properties from MODIS observations. *J. Climate*, **21**, 4955-4973.
2. Zhang, G.J., A.M. Vogelmann, M.P. Jensen, W.D. Collins , and E.P. Luke, 2009: Relating Satellite-Observed Cloud Properties from MODIS to Meteorological Conditions for Marine Boundary Layer Clouds. *J. Climate*, **23**, 1374-1391, doi:10.1175/2009JCLI2897.1.
3. Li, F., W.D. Collins, M.F. Wehner, D.L. Williamson, J.G. Olson, and C.A. Algieri, 2011: Impact of horizontal resolution on simulation of precipitation extremes in an aqua-planet version of Community Atmospheric Model (CAM3). In press, *Tellus A*.
4. Li, F., W.D. Collins, M.F. Wehner, D.L. Williamson, and J.G. Olson, 2011: Response of precipitation extremes to idealized global warming in an aqua-planet climate model: towards robust projection from regional to global scales. In press, *Tellus A*.
5. Janetos, A.C., L. Clarke, W. Collins, et al, 2009: *Science Challenges and Future Directions: Climate Change Integrated Assessment Research*, Report from the U.S. Department of Energy Office of Science and Office of Biological and Environmental Research. Workshop on Integrated Assessment, November 2008, 100 pp.

## SYNERGISTIC ACTIVITIES:

1. Chair and member, NCAR CCSM Scientific Steering Committee, 2003 – present.
2. Lead and collaborating author, IPCC Fourth Assessment Report, 2004 – 2007.
3. Chair, Gordon Research Conference on Radiation and Climate, 2007.
4. Lead author, *Scientific American* article on IPCC WG 1 findings, 2007.
5. Steering Committee, National Climate Assessment Modeling and Scaling Workshop, 2010.
6. Lead author, IPCC Fifth Assessment Report, 2010 – 2013.

## COLLABORATORS AND OTHER AFFILIATIONS:

- Collaborators – C.M.Bitz(UW), M.L.Blackmon(NCAR), G.B.Bonan(NCAR), C.S.Bretherton (UW), B.P.Briegleb(NCAR), J.A.Carton(UMBC), S.E.B.Casanova(Reading), P.Chang (Texas A&M), C.Deluca(NCAR), S.Doney(WHOI), J.Drake(ORNL), J.-L.Dufresne(LMD), D.P.Edwards (NCAR), D.W.Fillmore(NCAR), P.M.D.Forster(Leeds), G.L.Francis(NCAR), I.Fung(UCB), Q.Fu (UW), V.Y.Galin(INM), L.K.Gohar(Reading), J.J.Hack(NCAR), T.B.Henderson (NCAR), W.J.Ingram (Oxford), P.Jones(LANL), J.T.Kiehl(NCAR), D.P.Kratz(NASA), W.G.Large (NCAR), J.M.Lee-Taylor (NCAR), M.-P.Lefebvre(LMD), S.-J.Lin(GFDL), J.Li(CCCMA), N.Mahowald (Cornell), P.Marquet (Meteo-France), J.R.McCaa(3 Tier Inc.), D.S.McKenna(NCAR), M.Mlynczak (NASA), V.Oinas(GISS), R.W.Portmann(NOAA), V.Ramaswamy(GFDL), D.Randall (CSU), P.Rasch (NCAR), R.Rood(UM), B.D.Santer(LLNL), M.D.Schwarzkopf(GFDL), R.D.Smith (LANL), Y.Sun (NCC), Y.Tsushima(FRCGC), T.Uchiyama(MRI), A.Vogelmann(BNL), B.Wielicki (NASA), D.L.Williamson (NCAR), K.-M.Xu(NASA), G.Zhang(SIO), W.Y.Zhong(Imperial)
- Graduate advisor and postgraduate sponsor:
  - Thesis advisor: Dr. Eugene Parker, University of Chicago (emeritus)
  - Postdoctoral sponsor: Dr. V. Ramanathan, Scripps Institution of Oceanography
- Thesis advisor – David Fillmore, Lindsey Nolan, Kyle Pressel, Daniele Rosa, and Juli Rubin
- Ph.D. committees – Richard van Hees, Andrew Friedman, Andrew Jones, Michael Kiparsky, Lansing Madry, Andrew Rollins, Nicole Schlegel, Alexander Stine, and Abigail Swann
- Postdoctoral mentor –Daniel Feldman, Wei-Chun Hsieh, Lara Gunn, Fuyu Li, and Lisa Murphy